

# Evolutions in Metadata Quality

## Common Metadata Repository's Role in NASA Curation Efforts

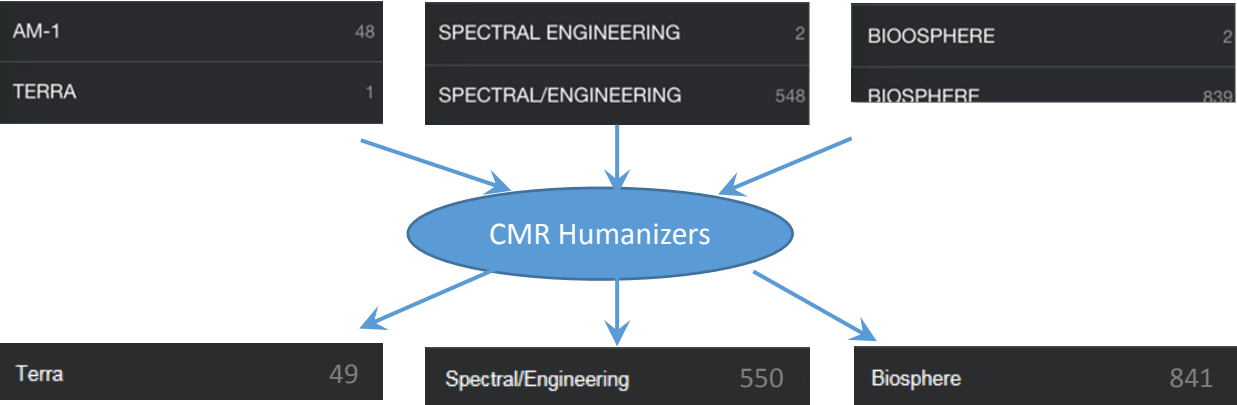
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The Common Metadata Repository (CMR) is a continuously evolving metadata system that catalogs the metadata records describing NASA's earth facing satellite data as well as data from select other US and international agencies. The CMR maintains hundreds of millions of metadata records; striving to make them available in under 1 second. Clients can access this freely available metadata by leveraging REST protocols and APIs to perform complex keyword, spatial, temporal and faceted search. However, this functionality is only as good as the metadata which backs it. In recent years, we've heard the following reports from users regarding the metadata quality:

- Misspellings: "Biosphere"
- Legacy Terms: "AM-1" instead of Terra
- Whitespace around values
- Missing information
- Inconsistent Names: Processing levels "Level 1", "1"

**Today's Goal:** Give clients clean, consistent facet data without changing the underlying metadata.



"CMR Humanizers" are a set of instructions, or aliases, which allow CMR administrators to quickly clean-up metadata. They can be used for spelling corrections, consistency problems, case corrections or trimming whitespace. These are applied to the CMR Facet responses to enable clients to display more user friendly metadata. API integrators are able to distinguish between native values and "humanized" values to determine which value is appropriate for their end user.

**Tomorrow's Goal:** Prevent invalid metadata from entering the CMR via enhanced validation.

